Complete Summary

GUIDELINE TITLE

Early assessment and diagnosis. In: Clinical guidelines for acute stroke management.

BIBLIOGRAPHIC SOURCE(S)

Early assessment and diagnosis. In: National Stroke Foundation. Clinical guidelines for acute stroke management. Melbourne (Australia): National Stroke Foundation; 2007 Oct. p. 17-21.

GUIDELINE STATUS

This is the current release of the guideline.

COMPLETE SUMMARY CONTENT

SCOPE
METHODOLOGY - including Rating Scheme and Cost Analysis
RECOMMENDATIONS
EVIDENCE SUPPORTING THE RECOMMENDATIONS
BENEFITS/HARMS OF IMPLEMENTING THE GUIDELINE RECOMMENDATIONS
QUALIFYING STATEMENTS
IMPLEMENTATION OF THE GUIDELINE
INSTITUTE OF MEDICINE (IOM) NATIONAL HEALTHCARE QUALITY REPORT
CATEGORIES
IDENTIFYING INFORMATION AND AVAILABILITY
DISCLAIMER

SCOPE

DISEASE/CONDITION(S)

- Acute stroke (ischemia or intracerebral hemorrhage)
- Transient ischemic attack (TIA)

GUIDELINE CATEGORY

Diagnosis
Evaluation
Risk Assessment

CLINICAL SPECIALTY

Cardiology
Critical Care
Emergency Medicine
Family Practice
Geriatrics
Internal Medicine
Neurology
Nuclear Medicine
Nursing

INTENDED USERS

Advanced Practice Nurses
Allied Health Personnel
Emergency Medical Technicians/Paramedics
Health Plans
Hospitals
Nurses
Patients
Physician Assistants
Physicians

GUIDELINE OBJECTIVE(S)

- To provide evidence-based recommendations related to acute stroke care
- To help health care workers improve the quality and effectiveness of the care they provide
- To provide a logical framework from pre-hospital care through to discharge and follow up in the community

TARGET POPULATION

Adults with suspected or known acute stroke or transient ischemic attack (TIA) during the early phase of care

Note: "Early" is defined as the first seven days of care. This guideline does NOT include recommendations on the care of those with subarachnoid hemorrhage or the care of children.

INTERVENTIONS AND PRACTICES CONSIDERED

Diagnosis/Evaluation

1. Assessment of transient ischemic attack (TIA)
    - Stroke risk using ABCD^2 Tool
    - Laboratory tests (full blood count, electrolytes, renal function, cholesterol, glucose)
    - Electrocardiogram
    - Computed tomography (CT) scan
    - Carotid ultrasound
2. Triage in the emergency department
    - Use of experienced clinician
    - Use of validated stroke screening tool

- Development of local management protocols
3. Imaging studies to confirm or differentiate diagnosis
   - Computed tomography (CT) scan or magnetic resonance diffusion weighted imaging of brain
   - Cardiac imaging: echocardiogram
   - Carotid duplex ultrasound
4. Additional investigations for determination of cause of event (angiography, chest x-ray, syphilis serology, vasculitis screen, prothrombotic screen)

MAJOR OUTCOMES CONSIDERED

- Stroke risk score
- Diagnostic accuracy
- Sensitivity and specificity of diagnostic imaging
- Morbidity and mortality
- Quality-adjusted life years
- Length of hospitalization
- Rate of cardiac source of event
- Cost of care

METHODOLOGY

METHODS USED TO COLLECT/SELECT EVIDENCE

Hand-searches of Published Literature (Primary Sources)
Hand-searches of Published Literature (Secondary Sources)
Searches of Electronic Databases

DESCRIPTION OF METHODS USED TO COLLECT/SELECT THE EVIDENCE

Systematic Searches and Literature Review

The systematic identification of relevant literature was conducted according to National Health and Medical Research Council (NHMRC) standards between July and November 2006. Previous international and national stroke guidelines were identified and evaluated using the AGREE tool. Guidelines developed by the Royal College of Physicians in the United Kingdom (UK) in 2004 were deemed the most recent and robust guidelines and hence were used as a basis for updating the literature searches. An external consultant was used to undertake all the electronic database searches.

Question Formulation

89 clinical questions were developed by the Expert Working Group (EWG) to address interventions relevant to acute stroke care. The questions generally queried the effects of a specific intervention and were developed in three parts: the intervention, the population and the outcomes. An example is "What is the effect of anticonvulsant therapy on reducing seizures in people with post-stroke seizures?" In this example, anticonvulsant therapy is the intervention, reduction of post-stroke seizures is the outcome, and the population is people with post-stroke seizures.

Finding Relevant Studies

For this guideline searching, there could be no single search coverage for all 89 questions: some sections of the guidelines need updating only from 2003, some are topics not previously addressed in the guidelines, some have already been well researched by other reputable guidelines authorities while some have no comprehensive meta-analysis relating to them.

In order to have some structure to the searching and to make filtering of the references more manageable, the questions were searched and stored in separate Endnote libraries by broad topics:

1. Organisation of care
2. Discharge planning, transfer of care and integrated community care
3. Pre hospital care
4. Early diagnostic assessment
5. Management in the emergency phase
6. Assessment and management of consequences of stroke
7. Prevention and management of complications
8. Early secondary prevention
9. Palliation and death
10. Transient ischemic attack (TIA)

Each reference within the library was then marked with the questions for which it was relevant. For Australasian Medical Index, EMBASE, Medline and Medline in-process & other non-indexed citations searching was conducted in four broad steps:

a. Terms for the patient group (P) were abridged from the Cochrane Collaboration's Stroke Group.
b. Where appropriate, intervention or other factor terms were added.
c. Relevant evidence filters (Cochrane sensitive filter or Medline diagnostic filter) were applied to the basic search strategies.
d. If the search was for an update only to National Stroke Foundation (NSF) or other authoritative meta-analysis, the references were limited to years 2003 onwards.

For brevity, search strategies are not included in the original guideline document but are available from the NSF. Table 3 in Appendix A of the original guideline document outlines the number of articles found for each 10 topic areas listed above.

A systematic process for choosing relevant articles occurred. At first, relevant systematic reviews were initially identified. Where no systematic review was found, primary studies were then searched. This initial process was conducted by one member of the working group. Final decision to include and review articles was made by two members of the working group after abstracts were scrutinised. Reference lists of identified articles and other guidelines were then used to identify further trials. The table of contents of a number of key journals for the last 6 months was also conducted. The following journals were chosen: Stroke, Cerebrovascular Disease, Lancet (and Lancet Neurology), and Archives of Physical Medicine and Rehabilitation. For a number of topics a general internet search was

then undertaken (using the "Google" search engine). Finally, where possible, experts in the field were contacted to review the identified studies and suggest other new studies not identified. Hand searching continued until May 2007 and significant studies were included.

Cost Analysis

The Guidelines project officer conducted a separate systematic review for this section. The economic literature was searched with a total of 1484 references retrieved after deduplication (see Table 4 in Appendix A of the original guideline document). One person sorted these and selected 70 potentially relevant articles. These abstracts were scrutinised for omissions by two people and appropriate papers were retrieved and reviewed (n=30).

NUMBER OF SOURCE DOCUMENTS

A total of 30,140 potential articles resulted from the clinical searching. After reviewing abstracts and titles, 1,411 of these were identified as being potentially useful and worth reading in more detail. Only 468 of the original were used to write the Guidelines report and only a final 153 of the 30,140 original references were used to support the Guideline recommendations.

METHODS USED TO ASSESS THE QUALITY AND STRENGTH OF THE EVIDENCE

Expert Consensus
Weighting According to a Rating Scheme (Scheme Given)

RATING SCHEME FOR THE STRENGTH OF THE EVIDENCE

Designation of Levels of Evidence According to Type of Research Question

Level	Intervention	Diagnosis	Prognosis	Aetiology	Screening
I	A systematic review of Level II studies	A systematic review of Level II studies	A systematic review of Level II studies	A systematic review of Level II studies	A systematic review of Level II studies
II	A randomised controlled trial	A study of test accuracy with: an independent, blinded comparison with a valid reference standard, among consecutive patients with	A prospective cohort study	A prospective cohort study	A randomised controlled trial

Level	Intervention	Diagnosis	Prognosis	Aetiology	Screening
		a defined clinical presentation			
III-1	A pseudo-randomised controlled trial (i.e., alternate allocation or some other method)	A study of test accuracy with: an independent, blinded comparison with a valid reference standard, among consecutive patients with a defined clinical presentation	All or none	All or none	A pseudo-randomised controlled trial (i.e., alternate allocation or some other method)
III-2	A comparative study with concurrent controls: • Non-randomised experimental trial • Cohort study • Case-control study • Interrupted time series without a parallel control group	A comparison with a reference standard that does not meet the criteria required for Level II and Level III-1 evidence	Analysis of prognostic factors amongst untreated control patients in a randomised controlled trial	A retrospective cohort study	A comparative study with concurrent controls: • Nonrandomised, experimental trial • Cohort study • Case-control study
III-3	A comparative study without concurrent controls: • Historical control study • Two or more single arm study • Interrupted time series without a	Diagnostic case-control study	A retrospective cohort study	A case-control study	A comparative study without concurrent controls: • Historical control study • Two or more single arm study

Level	Intervention	Diagnosis	Prognosis	Aetiology	Screening
	parallel control group				
IV	Case series with either post-test or pre-test/post-test outcomes	Study of diagnostic yield (no reference standard)	Case series or cohort study of patients at different stages of disease	A cross-sectional study	Case series

METHODS USED TO ANALYZE THE EVIDENCE

Review of Published Meta-Analyses
Systematic Review with Evidence Tables

DESCRIPTION OF THE METHODS USED TO ANALYZE THE EVIDENCE

Appraising and Selecting Studies

A standardised appraisal process was used based on that outlined by the Scottish Intercollegiate Guidelines Network (SIGN). Where available, appraisals already undertaken by the Stroke Therapy Evaluation Program (STEP) team were used to avoid duplication. The standardised appraisal form assesses the level of evidence (design and issues of quality), size of effect, relevance, applicability (benefits/harms) and generalisability of studies. Examples of completed checklists can be found on the STEP website (www.effectivestrokecare.org). Where Level I or II evidence was unavailable the search was broadened to include lower levels of evidence. Evidence for diagnostic and prognostic studies was also appraised using the SIGN methodology.

Summarising and Synthesising the Evidence

Details of relevant studies were summarised in evidence tables which form a supplement to this document. The supplement is available for download from the National Stroke Foundation (NSF) website (www.strokefoundation.com.au).

For each question the evidence was collated using the draft National Health and Medical Research Council (NHMRC) "Assessing the body of evidence form". The recommended grading matrix was used to guide the strength or grading of the recommendation. For each question, the working group discussed and agreed on draft recommendations. The body of evidence matrix along with the draft recommendation gradings are shown in the original guideline document.

METHODS USED TO FORMULATE THE RECOMMENDATIONS

Expert Consensus

DESCRIPTION OF METHODS USED TO FORMULATE THE RECOMMENDATIONS

The Clinical Guidelines for Acute Stroke Management have been developed according to processes prescribed by the National Health and Medical Research Council (NHMRC) under the direction of an interdisciplinary Expert Working Group (EWG) (see Appendix A in the original guideline document). The draft 'Additional levels of evidence and grades for recommendations for developers of guidelines pilot program 2005-2007' has been used to assist in grading the recommendations along with specifying levels of evidence. Consultation from other individuals and organisations was also included in the development process in line with NHMRC standards. Details about the development methodology and consultation process are outlined in Appendix A in the original guideline document.

A consumer was included in the EWG and has been involved in every phase of the development process, including the development of the clinical questions to guide the literature searching. In addition a number of consumer organisations were specifically sent the draft document and asked to provide any comments reflecting the views of consumers. Finally a two part structured consultation process was also undertaken by an independent team from the University of Queensland on behalf of the National Stroke Foundation to understand the views of consumers on the current document. The first phase discovered the views of consumers on the best process to engage consumers and receive feedback on the guidelines. Based on the results of this qualitative data, consumers from a wide range of locations, stroke severities, carer/survivor mix, and other demographics were collected. For details of the results of this consultation see Appendix A in the original guideline document. In addition, the process of developing the Clinical Guidelines for Acute Stroke Management has importantly included input and advice from stroke survivors and their family/carer.

RATING SCHEME FOR THE STRENGTH OF THE RECOMMENDATIONS

Grading of Recommendations

Grade	Description
A	Body of evidence can be trusted to guide practice
B	Body of evidence can be trusted to guide practice in most situations
C	Body of evidence provides some support for recommendation(s) but care should be taken in its application
D	Body of evidence is weak and recommendation must be applied with caution
Clinical Practice Points	
CPP	Recommended best practice based on clinical experience and expert opinion

COST ANALYSIS

There is good evidence of cost-effectiveness for the most clinically effective and important stroke prevention and treatment strategies recommended in this

guideline. In particular, the findings from a recent modelling exercise in the Australian setting indicate that more widely accessible, evidence-based stroke care could produce substantial economic and health-related benefits and would require only modest investment. The authors suggested that if there was improved access of eligible stroke patients to effective acute care (stroke units and intravenous thrombolysis) and secondary prevention (blood pressure [BP] lowering, warfarin for atrial fibrillation [AF], aspirin in ischaemic stroke and carotid endarterectomy), as well as improved management of BP and AF as primary prevention in the Australian population, then about $1.06 billion could be recovered as potential cost offsets with recovery of more than 85,000 disability adjusted life years (DALYs). Therefore, clinical guidelines such as these which promote improved treatment and prevention of stroke are an important contribution to achieving such increased access and the cost-effective use of health resources in this country.

See Section 9 titled *Cost and Socioeconomic Implications* in the original guideline document presents for details of the review of the cost and socioeconomic implications of providing evidence based stroke care supported by the recommendations contained within this guideline.

METHOD OF GUIDELINE VALIDATION

External Peer Review
Internal Peer Review

DESCRIPTION OF METHOD OF GUIDELINE VALIDATION

Public consultation was undertaken, with the draft document circulated to relevant professional bodies, interested individuals, consumers and consumer organisations over one month from mid April to the third week in May 2007. A public notice was also published in *The Australian* (April 19, 2007). Feedback received during consultation was considered by the Expert Working Group (EWG) and the draft document amended. A formal letter of reply was sent to all individuals and organisations that provided feedback during this period outlining the response taken by the EWG.

In response to the major issues received during consultation an independent expert was asked to review the key studies for the topic in question, in addition to other selected topics, and to advise the working group if the EWG had accurately interpreted and applied the evidence. Independent appraisals of the key studies along with an overall judgement about the appropriateness of the interpretation were provided. Only one recommendation was significantly changed based on this review with the vast majority of recommendations deemed to be in line with the evidence base. Further details are available in Appendix A of the original guideline document.

Several prompted questions were also asked and the response noted in Table 5 in Appendix A of the original guideline document.

MAJOR RECOMMENDATIONS

The levels of evidence supporting the recommendations (I-IV) and grades of recommendations (A-D and clinical practice points [CPP]) are defined at the end of the "Major Recommendations" field.

The original guideline document also includes a consumer rating that identifies aspects of care considered to be critical from a patient perspective.

These guidelines use the $ABCD^2$ tool (see "Definitions" at the end of the "Major Recommendations" field); patients with a rating >4 are designated HIGH risk and those ≤4 are LOW risk.

Assessment of Transient Ishaemic Attack (TIA)

All patients with suspected TIA should have a full assessment that includes assessment of stroke risk using the $ABCD^2$ tool at the initial point of health care contact whether first seen in primary or secondary care. (**Grade B; Level II** [Johnston et al., 2007])

The following investigations should be undertaken routinely for all patients with suspected TIA: full blood count, electrolytes, renal function, cholesterol level, glucose level, and electrocardiogram. (**CPP**)

Patients classified as high risk ($ABCD^2$ >4) should have an urgent computed tomography (CT) brain ('urgent' is considered as soon as possible, but certainly within 24 hours). Carotid duplex ultrasound should also be undertaken urgently in patients with carotid territory symptoms who would potentially be candidates for carotid re-vascularisation. Patients classified as low risk ($ABCD^2$ ≤4) should have a CT brain and carotid ultrasound (where indicated) as soon as possible (i.e., within 48-72 hours). (**Grade B; Level 1** [Johnston et al., 2007; Wardlaw et al., 2004; Wardlaw et al., 2006] & **Level III-3** [Douglas et al., 2003])

Triage in Emergency Department

Diagnosis should be reviewed by a clinician experienced in the evaluation of stroke. (**Grade C; Level III-3** [Kothari et al., 1995; Martin et al., 1997])

Emergency department (ED) staff should use a validated stroke screen tool to assist in rapid accurate assessment for all people with stroke. (**Grade C; Level II** [Nor et al., 2005])

Local protocols developed jointly by staff from pre-hospital emergency services, the hospital ED and the stroke unit should be used for all people with suspected stroke. Such protocols should include early notification by paramedic staff, high priority transportation and triage, rapid referrals from ED staff to stroke specialists and rapid access to imaging. (**Grade D; Level III-3 & IV** [Kwan, Hand, & Sandercock, 2004; Bray et al., 2005; Lindsberg et al., 2006])

Imaging

All patients with suspected stroke should have an urgent brain CT or magnetic resonance imaging (MRI) ('urgent' is considered as soon as possible, but certainly less than 24 hours). (**Grade A; Level I** [Wardlaw et al., 2004])

A repeat brain CT or MRI should be considered urgently when a patient's condition deteriorates. (**CPP**)

All patients with carotid territory symptoms who would potentially be candidates for carotid re-vascularisation should have an urgent carotid duplex ultrasound. (**Grade B; Level I** [Wardlaw et al., 2006])

Further brain, cardiac or carotid imaging should be undertaken in selected cases including:

- Patients where initial assessment has not confirmed likely source of ischaemic event
- Patients with a history of more than one TIA
- Patients likely to undergo carotid surgery

(**Grade B; Level I** [Wardlaw et al., 2004; Wardlaw et al., 2006] **Level III-2** [Kapral et al., 1999])

Investigations

The following investigations should be obtained routinely in all patients – full blood picture, electrocardiogram, electrolytes, renal function, fasting lipids, erythrocyte sedimentation rate and/or C-reactive protein, and glucose. (**CPP**)

Selected patients may require the following additional investigations: angiography, chest x-ray, syphilis serology, vasculitis screen and prothrombotic screen. These tests should be performed as soon as possible after stroke onset, and in selected patients, some of these tests may need to be performed as an emergency procedure. (**CPP**)

Definitions:

Levels of Evidence

Level	Intervention	Diagnosis	Prognosis	Aetiology	Screening
I	A systematic review of Level II studies	A systematic review of Level II studies	A systematic review of Level II studies	A systematic review of Level II studies	A systematic review of Level II studies
II	A randomised controlled trial	A study of test accuracy with: an	A prospective cohort study	A prospective cohort study	A randomised controlled trial

Level	Intervention	Diagnosis	Prognosis	Aetiology	Screening
		independent, blinded comparison with a valid reference standard, among consecutive patients with a defined clinical presentation			
III-1	A pseudo-randomised controlled trial (i.e., alternate allocation or some other method)	A study of test accuracy with: an independent, blinded comparison with a valid reference standard, among consecutive patients with a defined clinical presentation	All or none	All or none	A pseudo-randomised controlled trial (i.e., alternate allocation or some other method)
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III-3	A comparative study without concurrent controls:	Diagnostic case-control study	A retrospective cohort study	A case-control study	A comparative study without concurrent controls:

Level	Intervention	Diagnosis	Prognosis	Aetiology	Screening
	• Historical control study • Two or more single arm study • Interrupted time series without a parallel control group				• Historical control study • Two or more single arm study
IV	Case series with either post-test or pre-test/post-test outcomes	Study of diagnostic yield (no reference standard)	Case series or cohort study of patients at different stages of disease	A cross-sectional study	Case series

Grades of Recommendations

Grade	Description
A	Body of evidence can be trusted to guide practice
B	Body of evidence can be trusted to guide practice in most situations
C	Body of evidence provides some support for recommendation(s) but care should be taken in its application
D	Body of evidence is weak and recommendation must be applied with caution
Clinical Practice Points	
CPP	Recommended best practice based on clinical experience and expert opinion

ABCD^2 Tool*

A   Age: $\geq$60 years (1 point)

B   Blood pressure: $\geq$140/90 mmHg (1 point)

C   Clinical features: unilateral weakness (2 points), speech impairment without weakness (1 point)

D   Duration: >60mins (2 points), 10-59 mins (1 point)

D   Diabetes (1 point)

*(Johnston et al., 2007)

CLINICAL ALGORITHM(S)

None provided

REFERENCES SUPPORTING THE RECOMMENDATIONS

References open in a new window

TYPE OF EVIDENCE SUPPORTING THE RECOMMENDATIONS

The type of supporting evidence is identified and graded for each recommendation (see "Major Recommendations").

POTENTIAL BENEFITS

- Appropriate and timely diagnosis and treatment of stroke
- Secondary prevention of complications or stroke reoccurrence

POTENTIAL HARMS

Not stated

QUALIFYING STATEMENTS

- This document is a general guide to appropriate practice, to be followed subject to the clinician's judgement and the patient's preference in each individual case. The guidelines are designed to provide information to assist decision-making and are based on the best evidence available at the time of development.
- The guidelines should not be seen as an inflexible recipe for stroke care; rather, they provide a framework that is based on the best available evidence that can be adapted to local needs, resources and individual circumstances.

DESCRIPTION OF IMPLEMENTATION STRATEGY

Reviewing the evidence and developing evidence-based recommendations for care involves only the first steps to ensuring that evidence-based care is available. Following publication of the Clinical Guidelines for Acute Stroke Management, the guidelines must be disseminated to all those who provide care of relevance to

acute stroke care, who may then identify ways in which the guidelines may be taken up at a local level.

Strategies by which guidelines may be disseminated and implemented include:

- Distribution of education materials - for example: mailing of guidelines to stroke clinicians via existing stroke networks will be undertaken. Concise guidelines (in particular for General Practitioners [GPs]) are also planned with GP networks utilised to circulate this new information. Guidelines documents will also be sent to all appropriate universities, colleges, associations, societies and other professional organisations.
- Educational meetings - for example: interdisciplinary conferences or internet based 'web conferences' are planned. Resources will be developed to aid workshop facilitators identify barriers and solutions in the implementation phase.
- Educational outreach visits - A peer support model using sites viewed as 'champions' in aspects of acute stroke management may be used in collaboration with national audit results.
- Local opinion leaders - Educational resources will utilise key opinion leaders. It is also planned to have local champions facilitate workshops in their local areas.
- Audit and feedback - Data from the first national audit of acute stroke will be fundamental to the implementation of these guidelines. A copy of relevant indicators covering organisation of care and clinical care will be available from the National Stroke Foundation (NSF) along with key reports.
- Reminders - Electronic reminders will be used once local teams have identified key areas of improvement and commenced planned strategies.

A systematic review of the above dissemination and implementation strategies found that there was difficulty in interpreting the evidence of the effectiveness of these interventions due to methodological weaknesses, poor reporting of the study setting and uncertainty about the generalisability of the results. However, most of the strategies appear to have modest effectiveness in implementing evidence based care, but it is unclear if single interventions are any better or worse than multiple interventions. Thus, all of the above strategies may be used where appropriate for implementation of the Clinical Guidelines for Acute Stroke Management. Specific strategies will also be considered when targeting general practice in line with the Royal Australian College of General Practitioners (RACGP) Guidelines for "Putting prevention into practice". Implementation of these stroke Guidelines may also be supported by existing resources and networks. These include:

- The Stroke Services in Australia report, which outlines how stroke services may be organised in different parts of Australia and the resources that may be needed to do this (available at www.strokefoundation.com.au).
- The Stroke Care Pathway, which provides a checklist addressing key processes of care as outlined in both documents (Acute, and Rehabilitation and Recovery) and a guide to developing local protocols (available from www.strokefoundation.com.au or www.health.gov.au).
- Other specific workshop resources to aid implementation (e.g., CD Rom or self directed workbook).

- Various networks including Stroke Services New South Wales (NSW), Queensland (QLD) Stroke collaborative and other state and local networks.

In considering implementation of these Guidelines at a local level, health professionals are encouraged to identify the barriers and facilitators to evidence-based care within their environment to determine the best strategy for local needs.

Consumer Versions of the Clinical Guidelines

Consumer versions of the Clinical Guidelines for Acute Stroke Management and Clinical Guidelines for Stroke Rehabilitation and Recovery documents have been developed through partnerships between the National Stroke Foundation and State Stroke Associations throughout Australia. Given the different needs of stroke survivors and their families at different stages of recovery, the two Clinical Guideline documents are presented as three books for consumers. These books are available through the National Stroke Foundation and State Stroke Associations.

For information about availability, see the "Availability of Companion Documents" and "Patient Resources" fields below.

IMPLEMENTATION TOOLS

Patient Resources
Quick Reference Guides/Physician Guides

For information about availability, see the "Availability of Companion Documents" and "Patient Resources" fields below.

INSTITUTE OF MEDICINE (IOM) NATIONAL HEALTHCARE QUALITY REPORT CATEGORIES

IOM CARE NEED

Getting Better
Staying Healthy

IOM DOMAIN

Effectiveness
Patient-centeredness
Timeliness

IDENTIFYING INFORMATION AND AVAILABILITY

BIBLIOGRAPHIC SOURCE(S)

Early assessment and diagnosis. In: National Stroke Foundation. Clinical guidelines for acute stroke management. Melbourne (Australia): National Stroke Foundation; 2007 Oct. p. 17-21.

ADAPTATION

Not applicable: The guideline was not adapted from another source.

DATE RELEASED

2007 Oct

GUIDELINE DEVELOPER(S)

National Stroke Foundation (Australia) - Private Nonprofit Organization

SOURCE(S) OF FUNDING

Australian Government Department of Health and Ageing

GUIDELINE COMMITTEE

Expert Working Group

COMPOSITION OF GROUP THAT AUTHORED THE GUIDELINE

Group Members: Dr Alan Barber, Neurologist, Auckland City Hospital; Dr Christopher Beer, Senior Lecturer, University of Western Australia and Geriatrician/Clinical Pharmacologist Royal Perth and Mercy Hospitals and Swan Health Service; Prof Justin Beilby, Executive Dean, Faculty of Health Sciences and Professor of General Practice, University of Adelaide; Assoc Prof Julie Bernhardt, Physiotherapist, National Stroke Research Institute; Prof Christopher Bladin, Neurologist, Box Hill Hospital; Ms Brenda Booth, Consumer, Working Aged Group with Stroke, NSW; Dr Julie Cichero, Speech Pathologist, Private Practice & University of Queensland; Ms Louise Corben, Occupational Therapy, Monash Medical Centre & Bruce Lefroy Centre Murdoch Children's Research Institute; Dr Denis Crimmins (*Chair*) Neurologist, Gosford Hospital; Dr Richard Gerraty, Neurologist, Alfred Hospital and Monash University; Mr Kelvin Hill, Manager, Guidelines Program, National Stroke Foundation; Dr Erin Lalor, Chief Executive Officer, National Stroke Foundation; Assoc Prof Christopher Levi, Neurologist, John Hunter Hospital; Prof Richard Lindley, Professor of Geriatric Medicine, University of Sydney and Westmead Hospital; Prof Sandy Middleton, School of Nursing (NSW & ACT), Australian Catholic University; Ms Fiona Simpson, Dietitian and Senior Research Fellow, Royal North Shore Hospital Sydney

FINANCIAL DISCLOSURES/CONFLICTS OF INTEREST

All members of the working group completed and signed a declaration of potential conflicts of interest with development of these guidelines. Most had no perceived conflicts. The reasons provided for potential conflicts primarily involved receiving money from non commercial and commercial organisations specifically for

undertaking clinical research. This was expected given the expertise of members of the working group in clinical research. Only a small number of members had received financial support from commercial companies for providing consultancy or lecturing.

ENDORSER(S)

Australian and New Zealand Society for Geriatric Medicine - Medical Specialty Society
Australian College of Rural and Remote Medicine - Professional Association
Australian Physiotherapy Association - Medical Specialty Society
BeyondBlue: The National Depression Initiative - National Government Agency [Non-U.S.]
Council of Ambulance Authorities (Australia) - Professional Association
Dietitians Association of Australia - Professional Association
Occupational Therapy Australia - Professional Association
Royal Australian and New Zealand College of Radiologists - Professional Association
Speech Pathology Australia - Medical Specialty Society
Stroke Society of Australasia - Disease Specific Society

GUIDELINE STATUS

This is the current release of the guideline.

GUIDELINE AVAILABILITY

Electronic copies: Available in Portable Document Format (PDF) from the National Stroke Foundation (Australia) Web site.

Print copies: Available from the National Stroke Foundation (Australia), Level 7, 461 Bourke Street, Melbourne Victoria 3000, Australia.

AVAILABILITY OF COMPANION DOCUMENTS

The following is available:

- Clinical guidelines for acute stroke management – supplement. Melbourne (Australia): National Stroke Foundation; 2007 Oct. 67 p. Electronic copies: Available in Portable Document Format (PDF) from the National Stroke Foundation (Australia) Web site.

PATIENT RESOURCES

The following are available:

- Early testing and treatment. Melbourne (Australia): National Stroke Foundation; 2005. 16 p.
- Stroke rehabilitation. Melbourne (Australia): National Stroke Foundation; 2005. 19 p.

- Long term recovery. Melbourne (Australia): National Stroke Foundation; 2005. 16 p.

Electronic copies: Available in Portable Document Format (PDF) from the National Stroke Foundation (Australia) Web site.

Print copies: Available from the National Stroke Foundation (Australia), Level 7, 461 Bourke Street, Melbourne Victoria 3000, Australia.

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NGC STATUS

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